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Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

BP2917

First Inventor

Dr. Gottfried Ungerboeck

Title BIT MAPPING FOR VARIABLE-SIZE HIGHER-ORDER DIGITAL
MODULATIONS

Express Mail Label No.

EV381323449US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

ADDRESS TO:

Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

1. ☒ Fee Transmittal Form (e.g. PTO/SB/17)
(submit an original and a duplicate for fee processing)

2. ☐ Applicant claims small entity status.
See 37 CFR 1.27.

3. ☒ Specification [Total Pages 31]
(preferred arrangement set forth below)
-Descriptive title of the invention
-Cross Reference to Related Applications
-Statement Regarding Fed sponsored R&D
-Reference to sequence listing, a table,
or a computer program listing appendix
-Background of the Invention
-Brief Summary of the Invention
-Brief Description of the Drawings (if filed)
-Detailed Description
-Claim(s)
-Abstract of the Disclosure

4. ☒ Drawing(s) (35 U.S.C. 113) [Total Pages 12]

5. Oath or Declaration [Total Pages 2]
a. ☒ Newly executed (original or copy)
Copy from a prior application (37 CFR 1.63 (d))
b. ☐ (for continuation/divisional with Box 18 completed)

i. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s)
named in the prior application, see 37 CFR
1.63(d)(2) and 1.33(b).

6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or
Computer Program (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)

a. ☐ Computer Readable Form (CRF)

b. Specification Sequence Listing on:

i. ☐ CD-ROM or CD-R (2 copies); or

ii. ☐ paper

c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☒ Assignment Papers (cover sheet & documents(s))

10. ☒ 37 CFR 3.73(b) Statement (when there is an assignee) ☒ Power of Attorney

11. ☐ English Translation Document (if applicable)

12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations

13. ☐ Preliminary Amendment

14. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)

15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)

16. ☐ Request and Certification under 35 U.S.C. 122
(b)(2)(B)(i). Applicant must attach form PTO/SB/35
or its equivalent.

17. ☐ Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No. _____


Prior application information: Examiner: _____ Group Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label 34,399 or ☒ Correspondence address below

Name	Bruce E. Garlick				
Address	P.O. Box 160727				
City	Austin	State	TX	Zip Code	78716-0727
Country	USA	Telephone	512-264-8816	FAX	512-264-3735

Name (Print/Type)	Bruce E. Garlick	Registration No. (Atty/Agent)	36,520
Signature		Date	1/27/2004

SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

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FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$) \$1004.00

Complete if Known

Application Number	
Filing Date	
First Named Inventor	Dr. Gottfried Ungerboeck
Examiner Name	
Group Art Unit	
Atty Docket No.	BP2917

METHOD OF PAYMENT

- 1.
- ☐
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit
Account Number 50-2126Deposit
Account Name Garlick, Harrison & Markison, LLP☒ Charge Any Additional Fee Required
Under 37 CFR 1.16 and 1.17☐ Applicant claims small entity status.
See 37 CFR 1.27

- 2.
- ☒
- Payment Enclosed:

☐ Check ☒ Credit card ☐ Money
Order ☐ Other**FEE CALCULATION****1. BASIC FILING FEE**

Fee Description

Fee Paid

Utility filing fee
Design filing fee
Plant filing fee
Reissue filing fee
Provisional filing fee

770.00

SUBTOTAL (1) (\$) \$770.00

2. EXTRA CLAIM FEES

Fee From Below

Extra Claims

Fee Paid

Total Claims	26	-20**	6	X	18	=	108.00
Independent Claims	4	-3**	1	X	86	=	86.00
Multiple Dependent						=	

Fee Description

Claims in excess of 20

Independent claims in excess of 3
**Reissue independent claims
over original patent**Reissue claims in excess of 20
and over original patent

SUBTOTAL (2) (\$) 194.00

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES****Fee Description**

Surcharge-late filing fee or oath

Surcharge-late provisional filing fee or
or cover sheet

Non-english specifications

For filing a request for ex parte reexamination

Requesting publication of SIR prior to
Examiner actionRequesting publication of SIR after
Examiner action

Extension for reply within first month

Extension for reply within second month

Extension for reply within third month

Extension for reply within fourth month

Extension for reply within fifth month

Notice of Appeal

Filing a brief in support of appeal

Request for oral hearing

Petition to institute a public use proceeding

Petition to revive - unavoidable

Petition to revive unintentional

Utility Issue Fee (or reissue)

Design Issue Fee

Plant Issue Fee

Petitions to the Commissioner

Processing fee under 37 CFR 1.17(q)

Submissions of Information Disclosure Stmt

Recording each patent assignment per
property (times number of properties)Filing a submission after final rejection
(37 CFR 1.129(a))For each additional invention to be
examined (37 CFR 1.129(b))

Request for Continued Examination (RCE)

Request for expedited Examination of design application

Other fee (specify)

Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

\$40.00

\$40.00

SUBMITTED BY

Complete (if applicable)

Name (Print Type)

Bruce E. Garlick

Registration No.

36,520

Telephone

512-264-8816

Signature

Date

1/27/2004

SEND TO: Assistant Commissioner for Patents, Washington, DC 20231



BP2917

BROADCOM CORPORATION
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Fax: 949-450-8710

May 20, 2003

To whom it may concern:

I, Henry Samueli, hereby authorize Dee Henderson, Intellectual Property Portfolio Manager, to execute documents relating to US and foreign patent and trademark matters on behalf of Broadcom Corporation and/or its subsidiaries.

A handwritten signature in cursive script, appearing to read 'H Samueli', is written over a horizontal line.

Henry Samueli, Ph.D.
Chief Technical Officer and Co-Chairman